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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Please amend claims 1-3 and 42-47 as follows.

Please add new claims 48-50.

Please cancel claims 4-41 without prejudice.

Claim 1 (currently and previously amended) Ondansetron hydrochloride dihydrate having a purity of at least about 99.0% and an exo-methylene content of less than about 0.1%.

Claim 2 (currently and previously amended) Ondansetron hydrochloride dihydrate having a purity of at least <u>about</u> 99.5% <u>and an exo-methylene</u> content of less than about 0.1%.

Claim 3 (currently and previously amended) Ondansetron hydrochloride dihydrate having a purity of at least about 99.9% and an exo-methylene content of less than about 0.1%.

Claims 4-41 (canceled)

Claim 42 (currently amended) Ondansetron hydrochloride dihydrate as prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate has having a purity of at least about 99.0% and an exo-methylene content of less than about 0.1% prepared by the process of:

- a) preparing a solution of ondansetron base in water;
- b) acidifying the solution with hydrogen chloride to form a precipitate;
- c) washing the precipitate; and
- d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.
- Claim 43 (currently amended) Ondansetron hydrochloride dihydrate as prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate have having a purity of at least about 99.5% and an exo-methylene content of less than about 0.1% prepared by the process of:

a) preparing a solution of ondansetron base in water;

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b) acidifying the solution with hydrogen chloride to form a precipitate;

- c) washing the precipitate; and
- d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.
- Claim 44 (currently amended) Ondansetron hydrochloride dihydrate as prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate has having a purity of at least about 99.9% and an exo-methylene content of less than about 0.1% prepared by the process of:
 - a) preparing a solution of ondansetron base in water;
 - b) acidifying the solution with hydrogen chloride to form a precipitate;
 - c) washing the precipitate; and
 - d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.
- Claim 45 (currently amended) A pharmaceutical formulation comprising ondansetron hydrochloride dihydrate-as-prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate has a purity of at least about 99.0% and an exo-methylene content of less than about 0.1%, and wherein the ondansetron hydrochloride dihydrate is prepared by the process of:
 - a) preparing a solution of ondansetron base in water;
 - b) acidifying the solution with hydrogen chloride to form a precipitate;
 - c) washing the precipitate; and
 - d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.
- Claim 46 (currently amended) A pharmaceutical formulation comprising ondansetron hydrochloride dihydrate-as prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate has a purity of at least about 99.5% and an exo-methylene content of less than about 0.1%, and wherein the ondansetron hydrochloride dihydrate is prepared by the process of:
 - a) preparing a solution of ondansetron base in water;
 - b) acidifying the solution with hydrogen chloride to form a precipitate;
 - c) washing the precipitate; and

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d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.

Claim 47 (currently amended) A pharmaceutical formulation comprising ondansetron hydrochloride dihydrate_as prepared in accordance with a process of claim 26, wherein the ondansetron hydrochloride dihydrate has a purity of at least about 99.9% and an exo-methylene content of less than about 0.1%, and wherein the ondansetron hydrochloride dihydrate is prepared by the process of:

- a) preparing a solution of ondansetron base in water;
- b) acidifying the solution with hydrogen chloride to form a precipitate;
- c) washing the precipitate; and
- d) crystallizing pure ondansetron hydrochloride dihydrate from water and in the presence of activated carbon.
- Claim 48 (new) Ondansetron hydrochloride dihydrate as in claim 42, 43, or 44, wherein the ondansetron base is prepared by the process of:

 a) preparing a solution of methyl-imidazole and dimethylaminomethyl-carbazolone of the formula

N(Me)₂. HCl (where
$$R = C_{1-4}$$
, alkyl)

- b) heating the solution;
- c) removing a precipitate containing ondansetron base from the solution;
- d) washing the precipitate;
- e) drying precipitate to obtain ondansetron base; wherein the solution of methyl-imidazole and dimethylamino-methylcarbazolone is prepared by adding about 4 to about 6 equivalents

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> methyl-imidazole to one equivalent dimethylamino-methylcarbazolone.

Claim 49 (new) Ondansetron hydrochloride dihydrate as in claim 42, 43, 44, or 48 wherein the crystallization step is performed only once.

Claim 50 (new) The pharmaceutical formulation comprising ondansetron hydrochloride dihydrate as in claim 45, 46, or 47, wherein the ondansetron base is prepared by the process of:

a) preparing a solution of methyl-imidazole and dimethylaminomethyl-carbazolone of the formula

O

$$N(Me)_2$$
. HCl (where $R = C_{1-4}$, alkyl)

- b) heating the solution;
- c) removing a precipitate containing ondansetron base from the solution;
- d) washing the precipitate;
- e) drying precipitate to obtain ondansetron base; wherein the solution of methyl-imidazole and dimethylamino-methyl-carbazolone is prepared by adding about 4 to about 6 equivalents methyl-imidazole to one equivalent dimethylamino-methyl-carbazolone.